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**File 94: UD200609W2 is the last update for 2006. UD200701W1 is the first update for 2007. The file is complete and up to date.*

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[File 99] **Wilson Appl. Sci & Tech Abs** 1983-2007/Jan
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**File 603: This is a closed file.*

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Set	Items	Description
S1	263929	S (PACK?? OR PACKET? OR COMPRESS? OR ENCOD? OR PACKING OR COD???) (3N) (DATA OR SIGNAL?)

S2 736492 S (SAME OR EQUAL OR CONSTANT OR COMPAR? OR MATCH?? OR SIMILAR
 OR IDENTICAL OR EQUAL) (3N) (LENGTH?? OR SIZE?? OR INTERVAL? ?OR FRAME? OR
 WINDOW??? OR GROUP??? OR SELECT??? OR PART? ? OR PORTION? ? OR ELEMENT? ?)
 S3 270 S S2(5N)S1
 S4 13399 S SDH OR SYNCHRONOUS() (DIGITAL()HIERARCHY OR
 TRANSPORT()MODULE??)
 S5 57 S AU=(HEUER, V? OR HEUER V?)
 S6 10654 S (TRANSLAT? OR CONVERT??? OR CONVERSION OR CHANG??? OR
 TRANSFORM??? OR FORMAT??? OR RE()FORMAT??? OR REFORMAT???) (3N)S1
 S7 0 S S3(3N)S4
 S8 0 S S3(20N)S4
 S9 0 S S3(S)S4
 S10 0 S S3 AND S4
 S11 22 S S1(3N)S4
 S12 11 RD (unique items)
 S13 2 S S12 NOT PY>1997
 S14 64 S S1(20N)S4
 S15 100 S S1(S)S4
 S16 34 S (S14 OR S15) NOT PY>1997
 S17 30 RD (unique items)
 S18 28 S S17 NOT S13
 S19 1 S S18(20N)S6
 S20 2 S S18(3N) (TRANSLAT? OR CONVERT??? OR CONVERSION OR CHANG??? OR
 TRANSFORM??? OR FORMAT??? OR RE()FORMAT??? OR REFORMAT???)
 S21 1 S S20 NOT S19
 S22 26 S S18 NOT S20
 S23 7 S S22 AND PACK?
 S24 19 S S22 NOT S23
 S25 1 S S5 AND S4
 S26 0 S S25 NOT PY>1997
 S27 0 S (S1 OR S3) AND S5

13/3,K/1 (Item 1 from file: 144) [Links](#)

Pascal

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12508252 PASCAL No.: 96-0178684

A review of fully interactive video on demand

KERR G

Room MLB4/32A, BT Laboratories, Martlesham Heath, Ipswich IP5 7RE, United Kingdom

Journal: Signal processing. Image communication,
1996, 8 (3)

173-190

Language: English Summary Language: English

English Descriptors: Digital television; Video signal; Digital system; User service; Interactive system; **Data compression**; Video on demand; **Synchronous digital hierarchy**

13/3,K/2 (Item 2 from file: 144) [Links](#)

Pascal

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12499044 PASCAL No.: 96-0168672

Digital TV production and new network technologies : Challenging opportunities for broadcasters and network providers

NIELSEN O S

RE Technology AS, Emdrupvej, Denmark

International Television Symposium and Technical Exhibition, 19 (Montreux CHE) 1995-06

Journal: SMPTE journal, 1996

, 105 (3) 130-134

Language: English

English Descriptors: Digital television; Cable television; Video production ; Codec; Asynchronous transmission; Perspective; Review; **Data compression; Synchronous digital hierarchy**

19/3,K/1 (Item 1 from file: 2) [Links](#)

Fulltext available through: [USPTO Full Text Retrieval Options](#) [SCIENCEDIRECT](#)

INSPEC

(c) 2007 Institution of Electrical Engineers. All rights reserved.

04786065 INSPEC Abstract Number: B91005181

Title: A universal frame concept for digital transmission of TV signals of various source encoding formats over 140 Mbit/s links

Author Hofmann, H.; Moll, G.

Author Affiliation: Tech. Univ. Munchen, West Germany

Journal: Rundfunktechnische Mitteilungen vol.34, no.4 p. 173-83

Publication Date: July-Aug. 1990 **Country of Publication:** West Germany

CODEN: RUMIAS **ISSN:** 0035-9890

Language: German

Subfile: B

Abstract: ...of Germany in close cooperation with various national institutions for the digital transmission of TV signals of various source **encoding formats**, such as 4:2:2 component signals as per the CCIR recommendation 601, MAC/packet signals, FBAS-PAL signals, or even HDTV signals in the future. By introducing what is called a TV container...

21/3,K/1 (Item 1 from file: 2) [Links](#)

INSPEC

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06412101 INSPEC Abstract Number: B9612-6220M-006

Title: Transmission of 4:2:2 formatted video on SDH/PDH networks

Author Nielsen, O.S.

Author Affiliation: RE Technol. AS, Denmark

Conference Title: International Broadcasting Convention (Conf. Publ.No.428) p. 565-9

Publisher: IEE, London, UK

Publication Date: 1996 **Country of Publication:** UK xvi+611 pp.

ISBN: 0 85296 663 6 **Material Identity Number:** XX96-02814

Conference Title: International Broadcasting Convention (Conf. Publ.No.428)

Conference Sponsor: IEEE; IEE; Int. Assoc. Broadcasting Manuf.; R. Telev. Soc.; Soc. Cable Telecommun. Eng.; Soc. Motion Picture & Telev. Eng

Conference Date: 12-16 Sept. 1996 **Conference Location:** Amsterdam, Netherlands

Language: English

Subfile: B

Copyright 1996, IEE

Abstract: ...demonstrates a video codec based on DCT processing which allows transmission of 4:2:2 formatted video on SDH, SONET and PDH networks, and discusses the results of development at RE Technology.

23/3,K/1 (Item 1 from file: 2) [Links](#)

INSPEC

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06883451 INSPEC Abstract Number: B9805-6250F-190

Title: Wireless network architecture for migration to ATM and B-ISDN

Author Basu, K.; Robertson, D.; Rau, M.; Homayoun, F.

Author Affiliation: Nortel Wireless Networks, USA

Conference Title: ISS'97: World Telecommunications Congress. 'Global Network Evolution: Convergence or Collision?'. Proceedings Part vol.2 p. 297-305 vol.2

Publisher: Pinnacle Group, Toronto, Ont., Canada

Publication Date: 1997 **Country of Publication:** Canada 2 vol. (xxxiv+591+633) pp.

Material Identity Number: XX97-03299

Conference Title: Proceedings of ISS'97 International Switching Symposium

Conference Sponsor: Alcatel Canada; Bell Canada; BC Tel; Island Telephone Co.; Manitoba Telecom Serv.; et al

Conference Date: 21-26 Sept. 1997 **Conference Location:** Toronto, Ont., Canada

Language: English

Subfile: B

Copyright 1998, IEE

Abstract: ...like digital switches, PCM transmission at E1 or T1 rate. The new ATM technology adopts packet technology on the cell domain and uses the cell-switching technology to route and transfer... improve the voice quality of mobile-to-mobile connections. New multimedia traffic and wireless air signals are very often packet-type signals, and services like frame relay (FR) or cell relay (CR) can be the appropriate transport... signals could be transferred to the switching locations using a broadband transport network built by SDH/SONET and ATM switching. This paper presents the future network design concepts for the telecommunications...

Descriptors: ...packet switching

Identifiers: ...packet technology

23/3,K/2 (Item 2 from file: 2) [Links](#)

INSPEC

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06152886 INSPEC Abstract Number: B9602-6150P-024

Title: Evolution towards B-ISDN: The present and the future

Author Gouveia, A.; Nascimento, C.; Castel-Branco, L.

Author Affiliation: Dept. of Networks & Services Strategies, TLP, Lisboa, Portugal

Conference Title: Proceedings of the Sixth International Network Planning Symposium. Planning for a Customer Responsive Network p. 235-40

Publisher: Hungarian Convention Bureau, Budapest, Hungary

Publication Date: 1994 **Country of Publication:** Hungary xii+626 pp.

Material Identity Number: XX94-01849

Conference Title: Proceedings of Networks '94. 6th International Network Planning Symposium

Conference Date: 4-9 Sept. 1994 **Conference Location:** Budapest, Hungary

Language: English

Subfile: B

Copyright 1996, IEE

Abstract: ...there are three types of widespread commercially available network services: narrowband circuit switching; X.25 packet based switching for data exchange; and private networks. The increase of the traffic volume and application types with distinct binary rates motivated the definition of digital transmission systems such as SDH (synchronous digital hierarchy) and the development of IEEE 802.6 MAN (metropolitan area network) and ATM (asynchronous transfer ...

Identifiers: ...X25 packet based switching...

23/3,K/3 (Item 3 from file: 2) [Links](#)

Fulltext available through: [USPTO Full Text Retrieval Options](#) [SCIENCEDIRECT](#)

INSPEC

(c) 2007 Institution of Electrical Engineers. All rights reserved.
06090882 **INSPEC Abstract Number:** B9512-6210L-070, C9512-5620L-018
Title: Applications of fibre optic networks in high technology research
Author Bakes, C.M.; Goldberg, F.N.
Author Affiliation: Graduate Sch. of Manage., Kent State Univ., OH, USA
Journal: International Journal of Computer Applications in Technology vol.8, no.3-4 p. 172-89

Publication Date: 1995 **Country of Publication:** Switzerland
CODEN: IJCTEK **ISSN:** 0952-8091
U.S. Copyright Clearance Center Code: 0952-8091/95/\$2.50+50
Language: English
Subfile: B C
Copyright 1995, IEE

Abstract: ...investigates their roles in supporting high-level technological research. FDDI's topology, reliability, traffic classes, **data encoding**, token ring operation, timers, network management issues, and candidate applications are discussed. The multiplexing hierarchy... ..OAM capability, survivability, and candidate applications of SONET networks are explored. Interoperability issues, with the **SDH** international standard, ATM **packet** switching, and B-ISDN networks, are also addressed.
Identifiers: ...ATM **packet** switching...

23/3,K/4 (Item 4 from file: 2) [Links](#)
Fulltext available through: [USPTO Full Text Retrieval Options](#) [SCIENCEDIRECT](#) [ProQuest](#)
INSPEC

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05791547 **INSPEC Abstract Number:** B9411-6210C-042
Title: SDH for the real world
Author Park, B.; Simons, P.
Journal: Communications International vol.21, no.2 p. 23-4

Publication Date: Feb. 1994 **Country of Publication:** UK
CODEN: CINTDZ **ISSN:** 0305-2109
Language: English
Subfile: B

Abstract: Discussions of **SDH** deployment often overlook a key fact: while most customer traffic today and in the foreseeable future is split at 64 kbit/s, the minimum bandwidth granularity of **SDH** transport networks is E1 (2 Mbit/s, 30 channels). Developments in voice and **data compression**-which allow, for example, high-quality videoconferencing over just two 64 kbit/s channels-mean customer bandwidth requirements are unlikely to grow as fast as at first predicted. Investment in **SDH** is running apace. Some network operators are even saying they will not purchase PDH equipment after 1994. Completion of the **SDH** transmission network is a desirable long-term goal. Among the many benefits **SDH** brings to network operators and users are a highly flexible transmission network and the ability to **pack** extra information with each E1 transmission, for true end-to-end network management.

23/3,K/5 (Item 1 from file: 8) [Links](#)
Fulltext available through: [USPTO Full Text Retrieval Options](#) [SCIENCEDIRECT](#)
Ei Compendex(R)

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07282231 **E.I. No:** EIP95112914765
Title: Applications of fibre optic networks in high technology research

Author: Murphy Bakes, Catherine; Goldberg, Fredric N.
Corporate Source: Kent State Univ, Kent, OH, USA
Source: International Journal of Computer Applications in Technology v 8 n 3-4 1995. p 172-189
Publication Year: 1995
CODEN: IJCTEK **ISSN:** 0952-8091
Language: English

Abstract: ...investigates their roles in supporting high-level technological research FDDI's topology, reliability, traffic classes, **data encoding**, token ring operation, timers, network management issues, and candidate applications are discussed. The multiplexing hierarchy... ..OAM capability, survivability, and candidate applications of SONET networks are explored. Interoperability issues, with the **SDH** international standard, ATM **packet** switching, and B-ISDN networks, are also addressed. (Author abstract) 25 Refs.

23/3,K/6 (Item 2 from file: 8) [Links](#)

Fulltext available through: [USPTO Full Text Retrieval Options](#) [SCIENCEDIRECT](#) [ProQuest](#)

Ei Compendex(R)

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06946474 E.I. No: EIP94091391089

Title: Launching the information superhighway

Author: Friedman, Susan P.; Thaisz, Jim; Thomas, Phillip P.

Corporate Source: AT&T, Red Bank, NJ, USA

Source: AT&T Technology v 8 n 4 Winter 1993. p 2-7

Publication Year: 1993

CODEN: ATTTEJ **ISSN:** 0889-8979

Language: English

Abstract: ...upon transport standard for integrated voice data, video, and image traffic. Only ATM- a fast **packet-switching** and transmission technology - can handle any form presented to it and can mix voice...

Identifiers: Information superhighway; Asynchronous transfer mode; Fast **packet switching**; Integrated **data transfer**; Synchronous optical network (SONET); **Synchronous digital hierarchy (SDH)**

23/3,K/7 (Item 1 from file: 583) [Links](#)

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04856061

Perspectives for Communications Technology in the Nineties

WORLD - DEVELOPMENTS IN COMMUNICATIONS TECHNOLOGY

Siemens Review (SRW) 0 December 1991 p4-8

Advances in digital telephony, circuit-and **packet-switched data** networks, cellular mobile radio and integrated services digital networks (ISDN), as well as developments in... ..as the implementation of the asynchronous transfer mode (ATM), synchronous optical networks (SONET), broadband ISDN, **synchronous digital hierarchy (SDH)**, transmission network management (TNM), intelligent networks (IN) and personal computer networks (PCN) being anticipated for...

24/3,K/1 (Item 1 from file: 2) [Links](#)

INSPEC

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06690538 **INSPEC Abstract Number:** B9710-6120B-142

Title: LSB-coded modulation and its applications to microwave digital radios

Author Sung-Moon Yang; Wei-Kang Cheng; Jun Shen

Author Affiliation: Farinon Div., Harris Corp., Redwood Shores, CA, USA

Conference Title: IEEE GLOBECOM 1996. Communications: The Key to Global Prosperity. Conference Record (Cat. No.96CH35942) **Part** vol.2 p. 1243-7 vol.2

Publisher: IEEE, New York, NY, USA

Publication Date: 1996 **Country of Publication:** USA 3 vol. (xvi+xxxiii+xvii+2169) pp.

ISBN: 0 7803 3336 5 **Material Identity Number:** XX97-00868

U.S. Copyright Clearance Center Code: 0 7803 3336 5/96/\$5.00

Conference Title: Proceedings of GLOBECOM'96. 1996 IEEE Global Telecommunications Conference

Conference Sponsor: IEEE Commun. Soc.; IEE; UKRI Commun. Chapter; BT; FUJITSU; ALCATEL Telecom; Braodband Technol.; NORTEL Northern Telecom; Lucent Technol.; ERICSSON

Conference Date: 18-22 Nov. 1996 **Conference Location:** London, UK

Language: English

Subfile: B

Copyright 1997, IEE

Abstract: ...mix-up of adjacent ones. It is simple to implement, efficient and flexible with different **data** and **coding** rates. It is particularly suited for high speed, bandwidth-efficient digital communication systems. We have... ..scheme has been successfully applied to Harris 155.52 Mbps, 128QAM 30 MHz bandwidth, SONET/SDH microwave digital radios.

24/3,K/2 (Item 2 from file: 2) [Links](#)

INSPEC

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05986523 **INSPEC Abstract Number:** B9508-0100-007
Title: Proceedings ICDSC-10. 10th International Conference on Digital Satellite Communications (Conf. Publ. No.403)

Part vol.1

Publisher: IEE, London, UK

Publication Date: 1994 **Country of Publication:** UK 2 vol. (xxvi+xx+712) pp.

ISBN: 0 85296 635 0

Conference Title: Proceedings ICDSC-10. 10th International Conference on Digital Satellite Communications (Conf. Publ. No.403)

Conference Date: 15-19 May 1995 **Conference Location:** Brighton, UK

Language: English

Subfile: B

Copyright 1995, IEE

Abstract: The following topics were dealt with VSAT; on-board processing; mobile satellite systems; ATM/SDH; Ka-band use; video compression; intersatellite links; modulation and coding; audio and data broadcasting; TDMA; user experience; thin route/DAMA; operational aspects; multimedia.

24/3,K/3 (Item 3 from file: 2) [Links](#)

Fulltext available through: [USPTO Full Text Retrieval Options](#) [SCIENCEDIRECT](#)

INSPEC

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05323813 **INSPEC Abstract Number:** B9302-6250-023

Title: Innovation in next generation digital radio systems

Author Baccetti, B.; Salerno, M.

Journal: Siemens Review spec. issue. p. 22-6

Publication Date: Fall 1992 **Country of Publication:** West Germany

CODEN: SZTEA6 **ISSN:** 0302-2528

Language: English

Subfile: B

Abstract: The introduction of the **synchronous digital hierarchy (SDH)**, and the concurrent need for networks oriented toward optical systems, are conditioning developments in digital... ..is carrying out a comprehensive R&D effort for an innovative design of next generation **SDH** radio systems. The authors discuss this program with particular reference to high speed digital **signal** processing techniques, trellis **coded** modulation, and new solutions for MW transceivers.

24/3,K/4 (Item 4 from file: 2) [Links](#)

Fulltext available through: [USPTO Full Text Retrieval Options](#) [SCIENCEDIRECT](#)

INSPEC

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04940311 **INSPEC Abstract Number:** B91052121, C91052963

Title: Image transmission network in communications: B-ISDN

Author Hashimoto, H.

Author Affiliation: NTT Human Interface Labs., Yokosuka, Japan

Journal: Journal of the Institute of Television Engineers of Japan vol.45, no.1 p. 22-6

Publication Date: Jan. 1991 **Country of Publication:** Japan

CODEN: JITJA7 **ISSN:** 0386-6831

Language: Japanese

Subfile: B C

Abstract: The development of broadband ISDN (B-ISDN) involving network node interfaces and **synchronous digital hierarchy** and its wider use which awaits the wide availability of fibre optic networks and experimental... ..to the home are reviewed. Key technologies in dynamic image transmission by B-ISDN are **signal coding** of HDTV, and variable rate coding using ATM.

24/3,K/5 (Item 5 from file: 2) [Links](#)

Fulltext available through: [USPTO Full Text Retrieval Options](#) [SCIENCEDIRECT](#)

INSPEC

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04515241 INSPEC Abstract Number: B90003757

Title: Perception limits of phase time jitter on decoding of composite coded colour TV signals

Author Jónas, P.

Author Affiliation: Tech. Univ., Braunschweig, West Germany

Journal: NTZ Archiv vol.11, no.5 p. 227-31

Publication Date: Sept.-Oct. 1989 **Country of Publication:** West Germany

CODEN: NTZADW **ISSN:** 0170-172X

Language: German

Subfile: B

Abstract: Composite coded colour TV signals according to PAL-standard will be interfered with additional jitter and perception limits of different... ..smoothing circuits and may lead to visible interfaces in digital video communications. Stuffing jitter from synchronous transport modules (STM-1) which are recommended by CCITT in June 1988 as basis for a future...

24/3,K/6 (Item 1 from file: 8) [Links](#)

Ei Compendex(R)

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07704096 E.I. No: EIP97053667033

Title: LSB-coded modulation and its applications to microwave digital radios

Author: Yang, Sung-Moon; Cheng, Wei-Kang; Shen, Jun

Corporate Source: Harris Corp, Redwood Shores, CA, USA

Conference Title: Proceedings of the 1996 IEEE Global Telecommunications Conference. Part 2 (of 4)

Conference Location: London, UK **Conference Date:** 19961118-19961122

E.I. Conference No.: 46413

Source: Conference Record / IEEE Global Telecommunications Conference v 2 1996. IEEE, Piscataway, NJ, USA, 96CH35942. p 1243-1247.

Publication Year: 1996

CODEN: CRIET

Language: English

Abstract: ...mix-up of adjacent ones. It is simple to implement, efficient and flexible With different data and coding rates. It is particularly suited for high speed, bandwidth-efficient digital communication systems. We have... ..scheme, has been successfully applied to Harris 155.52 Mbps, 128QAM, 30 MHz bandwidth, SONET/SDH microwave digital radios. (Author abstract) 5 Refs.

24/3,K/7 (Item 2 from file: 8) [Links](#)

Ei Compendex(R)

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07484998 E.I. No: EIP96083299908

Title: Proceedings of the 1996 International Conference on Communication Technology Proceedings, ICCT'96. Part 2 (of 2)

Author: Zhigang, CAO (Ed.)

Conference Title: Proceedings of the 1996 International Conference on Communication Technology Proceedings, ICCT'96. Part 2 (of 2)

Conference Location: Beijing, China **Conference Date:** 19960505-19960507

E.I. Conference No.: 45212

Source: International Conference on Communication Technology Proceedings, ICCT v 2 1996. IEEE, Piscataway, NJ, USA. p 611-1133

Publication Year: 1996

CODEN: 002424

Language: English

Abstract: ...local area networks, image and video compression, computer simulation, computer architecture, asynchronous transfer mode, modulation, synchronous digital hierarchy, personal access communication systems, network operation and management, neural networks, multiaccess communication, switching technology, digital radio, broadband network service, data communication systems, code division multiple access.

24/3,K/8 (Item 3 from file: 8) [Links](#)

Fulltext available through: [USPTO Full Text Retrieval Options](#) [SCIENCEDIRECT](#)

Ei Compendex(R)

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07178188 E.I. No: EIP95062727287

Title: Key technologies for microwave communications

Author: Bianconi, G.; Carpe, M.; Salas, P.

Corporate Source: Alcatel Radio Transmission Systems, Vimercate, Italy

Source: Electrical Communication n 4th Quarter 1994. p 326-332

Publication Year: 1994

CODEN: ELCMAX **ISSN:** 1242-0565

Language: English

Identifiers: Synchronous digital hierarchy systems; Frequency reuse technique; Coded modulation; Diversity signal combiners; Cross polar interference canceller

24/3,K/9 (Item 4 from file: 8) [Links](#)

Fulltext available through: [USPTO Full Text Retrieval Options](#) [SCIENCEDIRECT](#)

Ei Compendex(R)

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06994085 E.I. No: EIP94112440182

Title: PAL and HDTV transmission experiments using SDH networks

Author: Newell, J.C.

Corporate Source: BBC Research and Development Dep, Surrey, UK

Conference Title: Proceedings of the IEE Colloquium on Television Over New Networks (The Impact of SDH on Broadcasting)

Conference Location: London, UK **Conference Date:** 19940524

E.I. Conference No.: 21320

Source: IEE Colloquium (Digest) n 131 May 24 1994. IEE, Stevenage, Engl. p 2/1-2/5

Publication Year: 1994

CODEN: DCILDN **ISSN:** 0963-3308

Language: English

Identifiers: Synchronous Digital Hierarchy networks; Optical wavelength division multiplexing; Electrical time division multiplexing; Video signal routing system; Codecs

24/3,K/10 (Item 5 from file: 8) [Links](#)

Fulltext available through: [USPTO Full Text Retrieval Options](#) [SCIENCEDIRECT](#)

Ei Compendex(R)

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06695690 E.I. No: EIP93081065092

Title: Progress in communication technology as viewed from 92 ICCT

Author: Cao, Zhigang

Corporate Source: Tsinghua Univ, Beijing, China

Source: Tien Tzu Hsueh Pao/Acta Electronica Sinica v 21 n 4 Apr 1993. p 90-94

Publication Year: 1993

CODEN: TTHPAG **ISSN:** 0371-2112

Language: Chinese

Abstract: ...It covers the following aspects: communication and intelligence network; asynchronous transmission mode and switching technique; SDH/SONET and optical fiber communication; satellite, motion and digital microwave communication, modulation and coding; signal processing; etc.

24/3,K/11 (Item 1 from file: 94) [Links](#)

JICST-EPlus

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02994560 JICST Accession Number: 96A0615612 File Segment: JICST-E

Development of A Hi-Vision Video Remote Surveillance System.

HASEGAWA MASAMICHI (1); SHIMIZU HIDEO (1); KIMURA HIROSHIGE (1)

(1) Tokyo Electr. Power Co.

Denki Gakkai Tsushin Kenkyukai Shiryo , 1996 , VOL.CMN-96,NO.39-53 , PAGE.19-27 , FIG.4, TBL.4, REF.6

Journal Number: X0478AAI

Universal Decimal Classification: 621.311.1 621.397.004.14

Language: Japanese **Country of Publication:** Japan

Document Type: Conference Proceeding

Article Type: Original paper

Media Type: Printed Publication

Abstract: ...facility monitoring.32Mbps moving image CODEC was produced experimentally for transmission of the high-definition data. This CODEC was connected with the office transmission network, and then the trial experiment of remote supervision... ..experiment between Tokyo - Osaka was carried out. The development of the ATM interface based on SDH being advanced, the high-definition CODEC correspondent to ATM channel was developed. This paper reported...

24/3,K/12 (Item 2 from file: 94) [Links](#)

JICST-EPlus

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02786351 **JICST Accession Number:** 96A0349186 **File Segment:** JICST-E

Meeting report on ITU-T SG15 (transmission system and equipment). 276th ITU-T (telecommunication standardization) workshop data. (Ministry of Posts and Telecommunications S; New Japan ITU Society S)
WADA MASAHIRO (1) ; NAITO YUJI (2) ; HARADA KEIJI (3) ; OKAMURA HARUO (4); YOSHIDA TATSUHIKO (4)

(1) Kokusai Denshin Denwa Co., Ltd., R & D Lab. ; (2) Mitsubishi Electr. Corp., Electro-Opt. and Microwave Systems Lab. ; (3) Nippon Telegr. and Teleph. Corp. ; (4)Nippon Telegr. and Teleph. Corp.

ITU,T SG15, Denso Shisutemu oyobi Sochi, Kaigo Hokoku. Dai276kai ITU,T, Denki Tsushin Hyojunka, Kenkyukai Shiryō. Heisei 7nen , 1995 , PAGE.45P

Journal Number: N199608440

Universal Decimal Classification: 621.391.1

Language: Japanese **Country of Publication:** Japan

Document Type: Conference Proceeding

Article Type: Introduction article

Media Type: Printed Publication

Abstract: ...general items, sound broadcasting programs and equipment for TV transmission are discussed.2) On speech coding and signal processing, 12 problems such as signal processing technology in a voice band telecommunication network are discussed.3) At WP3 dealing with multiplexing equipment related matters, SDH equipment, ATM equipment and SDH RING equipment are discussed as problems.4) On optical fiber and an optical transmission system...

24/3,K/13 (Item 3 from file: 94) [Links](#)

Fulltext available through: [USPTO Full Text Retrieval Options](#) [SCIENCEDIRECT](#)

JICST-EPlus

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02551479 **JICST Accession Number:** 95A0604839 **File Segment:** JICST-E

The report on ITU-T SG15 (transmission system and equipment) third meeting.
WADA MASAHIRO (1) ; NAITO YUJI (2) ; HARADA KEIJI (3) ; OKAMURA HARUO (4); YOSHIDA TATSUHIKO (4)

(1) KDD Ken ; (2) Mitsubishi Electr. Corp., Electro-Opt. and Microwave Systems Lab. ; (3) Nippon Telegr. and Teleph. Corp. ; (4)NTT Hikarinettowakushisutemuken

ITU Janaru , 1995 , VOL.25,NO.7 , PAGE.14-19 , FIG.5, TBL.2

Journal Number: L0766ABD ISSN: 0916-7544

Universal Decimal Classification: 621.39

Language: Japanese **Country of Publication:** Japan

Document Type: Journal

Article Type: Commentary

Media Type: Printed Publication

Abstract: ...audio visual/multi-media service in WP-1.2) Problems on LD-CELP CODEC, speech coding algorithm and signal processing in WP-2.3) SDH and ATM equipments as a multiplexing equipment in WP-3.4) Long distance transmission and...

24/3,K/14 (Item 4 from file: 94) [Links](#)

Fulltext available through: [USPTO Full Text Retrieval Options](#) [SCIENCEDIRECT](#)

JICST-EPlus

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02312085 JICST Accession Number: 95A0171748 File Segment: JICST-E
Success in practical application of CODEC for high-quality high compression HDTV digital transmission.
MATSUMOTO SHUICHI (1) ; SUNAHATA AKIO (2)

(1) Kokusai Denshin Denwa Co., Ltd., R & D Lab. ; (2) Kokusai Denshin Denwa Co., Ltd.
KDD Tekunikaru Janaru (KDD Technical Journal) , 1995 , NO.19 , PAGE.4-7 , FIG.6, TBL.1

Journal Number: L0912AAD ISSN: 0917-2335

Universal Decimal Classification: 621.397+654.197

Language: Japanese **Country of Publication:** Japan

Document Type: Journal

Article Type: Commentary

Media Type: Printed Publication

Abstract: In the case of the CODEC HDC-45, information is not **compressed** in the **signal** (time) domain but in the frequency domain with KDD high-efficiency **coding** technologies allowing for **data compression** with digital **signals**. High definition **signals** are **compressed** digitally to the rate of 45Mbit/s by HDC-45, and can be relayed and... ..usual TV network. Also, these high definition signals will be able to be used on **SDH** networks in the future.

24/3,K/15 (Item 5 from file: 94) [Links](#)

JICST-EPlus

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01150559 JICST Accession Number: 91A0116192 File Segment: JICST-E

STM-1 rate HDTV codecs using adaptive intrafield/interframe DCT.

SAWADA KATSUTOSHI (1); SAKAI HIROSHI (1) ; YASHIMA YOSHIYUKI (2)

(1) Nippon Telegraph & Telephone Corp., Human Interface Lab. ; (2) Nippon Telegraph & Telephone Corp.
Denshi Joho Tsushin Gakkai Gijutsu Kenkyu Hokoku (IEIC Technical Report (Institute of Electronics, Information and Communication Engineers) , 1990 , VOL.90,NO.331(IE90 62-68) , PAGE.37-44 , FIG.14, TBL.2, REF.13

Journal Number: S0532BBG

Universal Decimal Classification: 621.397+654.197

Language: Japanese **Country of Publication:** Japan

Document Type: Journal

Article Type: Original paper

Media Type: Printed Publication

Abstract: ...line/60-Hz HDTV at 155.52Mbit/s, which is the STM-1 rate of **synchronous digital hierarchy**. The codecs employ an intrafield/interframe adaptive DCT algorithm and variable word length coding. The... ..where standard definition TV signals as well as HDTV signals can be decoded from the **coded HDTV data**. Experimental results show these codecs provide sufficient coding performance for HDTV distribution. (author abst.)

24/3,K/16 (Item 1 from file: 95) [Links](#)

TEME-Technology & Management

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00952075 E96016806062

Economical fiber migration in the local loop: new technologies and concepts cut into the cable plant

(Oekonomische Fibermigration in der Teilnehmerleitung: Einfuegung neuer Techniken und Konzepte in die Kabelanlage)

Liese, W; Wenski, W; Schoenfeld, H

Kabelmetal Electro, Hannover, D

IWCS, 43rd Internat. Wire and Cable Symp., Proc., Atlanta, USA, Nov 14-17, 1994 , 1994

Document type: Conference paper **Language:** English

Record type: Abstract

Abstract:

...more information and at higher transmission rates over FTTL networks. Fiber optic technology, advances in **encoding** and **data compression**, digitalization and the introduction of **SDH**, STM and ATM standards have placed new equipment into the networks to address this need...

24/3,K/17 (Item 2 from file: 95) [Links](#)

TEME-Technology & Management

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00941339 E95126371033

The fundamental concepts of media services

(Die grundlegenden Konzepte von Mediendiensten)

Kovalick, A; Coggins, D; Burgin, J

Hewlett-Packard, Santa Clara, USA

ATNAC 94, Australian Telecommunication Networks & Applications Conf., Vol. 1, Proc., Melbourne, AUS, Dec 5 - 7, 1994 , 1994

Document type: Conference paper **Language:** English

Record type: Abstract

Abstract:

...and for the client's terminal equipment. Usually, but not in all cases, the delivered **data** is a **compressed** version of the desired material. For video/audio, the compression may be the proposed ISO...

24/3,K/18 (Item 3 from file: 95) [Links](#)

TEME-Technology & Management

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00867149 E95036383004

The evolution of digital modulation and access techniques in the INTELSAT system

(Die Entwicklung der digitalen Modulation und Zugriffstechniken im INTELSAT-System)

Phiel, JFjr; Abdel-Nabi, T; Brown, MPjr

Int. Telecommunications Satellite Organization, Washington, USA

ICSSC 94, 15th AIAA Int. Communications Satellite Syst. Conf., a Collection of Tech. Papers, Part 2, San Diego, USA, Feb 28-Mar 3, 1994 , 1994

Document type: Conference paper **Language:** English

Record type: Abstract

ISBN: 1-56347-078-0

Abstract:

...toward the complete use of digital modulation and encoding, digitally controlled satellite access and digital **signal compression** for over 15 years. At first, the use of digital technology was motivated by a... ..in the areas of Trellis-Coded Modulation (TCM), modern thin route DAMA, and compatibility with **SDH** multiplexed traffic.

24/3,K/19 (Item 1 from file: 144) [Links](#)

Pascal

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12508619 PASCAL No.: 96-0180049

Errored block detection with bit interleaved parity failures in SDH network

CORNAGLIA B; PANE P; SPINI M

CSELT, Turin, Italy

Journal: IEEE Transactions on Communications,

1995, 43 (12)

2904-2906

Language: English

English Descriptors: Bit interleaved parity; **Synchronous**

digital hierarchy; Poisson error distribution; Error burst

distribution; Digital path; Block errored ratio; Theory; Digital

communication systems; Block **codes**; Bit error rate; **Signal**

processing; Probability; Performance; Error analysis; Matrix algebra;

Coding errors; Error detection

25/3,K/1 (Item 1 from file: 2) [Links](#)

Fulltext available through: [USPTO Full Text Retrieval Options](#) [SCIENCEDIRECT](#)

INSPEC

(c) 2007 Institution of Electrical Engineers. All rights reserved.

09513750 **INSPEC Abstract Number:** B2005-09-6260F-013

Title: Building minimum total cost of ownership optical networks in the Asia Pacific region

Author Coltro, C.; Gabla, P.; Gong, P.; Cheng, M.; Heuer, V.

Author Affiliation: Optical Networks Div., Asia Pacific, Shanghai, China

Journal: Alcatel Telecommunications Review no.1 p. 66-72

Publisher: Compagnie Financiere Alcatel ,

Publication Date: 2003 **Country of Publication:** France

CODEN: ATREFX **ISSN:** 1242-0565

SICI: 1242-0565(2003)1L:66:BMTC;1-F

Material Identity Number: D445-2004-001

Language: English

Subfile: B

Copyright 2005, IEE

Author Coltro, C.; Gabla, P.; Gong, P.; Cheng, M.; Heuer, V.

Abstract: ...network expansion gap. In addition to this Alcatel has expanded new optical systems based on SDH/ATM/MPLS technology by means of Alcatel optical multi service nodes portfolio. Thus in the...

Descriptors: ...synchronous digital hierarchy;

Identifiers: ...SDH; ...synchronous digital hierarchy;

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(c) 2007 The HW Wilson Co. All rights reserved.

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(c) 1999 The Gale Group. All rights reserved.

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[File 369] **New Scientist** 1994-2007/Nov W1
(c) 2007 Reed Business Information Ltd. All rights reserved.

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(c) 2007 Economist Intelligence Unit. All rights reserved.

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(c) 2007 The Gale Group. All rights reserved.

[File 623] **Business Week** 1985-2007/Feb 20
(c) 2007 The McGraw-Hill Companies Inc. All rights reserved.

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**File 624: Homeland Security & Defense and 9 Platt energy journals added Please see HELP NEWS624 for more*

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(c) 2006 IDG Communications. All rights reserved.

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Set	Items	Description
S1	251208	S (PACK?? OR PACKET? OR COMPRESS? OR ENCOD? OR PACKING OR COD???) (3N) (DATA OR SIGNAL?)
S2	923049	S (SAME OR EQUAL OR CONSTANT OR COMPAR? OR MATCH?? OR SIMILAR OR IDENTICAL OR EQUAL) (3N) (LENGTH?? OR SIZE?? OR INTERVAL? ?OR FRAME? OR WINDOW??? OR GROUP??? OR SELECT??? OR PART? ? OR PORTION? ? OR ELEMENT? ?)
S3	222	S S2(5N) S1
S4	45456	S SDH OR SYNCHRONOUS() (DIGITAL() HIERARCHY OR TRANSPORT() MODULE??)
S5	0	S AU=(HEUER, V? OR HEUER V?)
S6	9563	S (TRANSLAT? OR CONVERT??? OR CONVERSION OR CHANG??? OR TRANSFORM??? OR FORMAT??? OR RE() FORMAT??? OR REFORMAT???) (3N) S1
S7	3	S S3 AND S4
S8	3	RD (unique items)
S9	3	S S8 NOT PY>1997
S10	64	S (S1 OR S6) (3N) S4
S11	39	RD (unique items)
S12	2	S S11 NOT PY>1997
S13	2	S. S12 NOT S9

9/3,K/1 (Item 1 from file: 15) Links
ABI/Inform(R)
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01149970 97-99364
The coming of MANs

Barlow, Ian
Telecommunications (International Edition) v29n12 pp: 23-29
Dec 1995
ISSN: 0040-2494 Journal Code: TIE
Word Count: 2532
Text:

...communications capacity now exists in many metropolitan areas.

The high bandwidth capacity of these new **SDH**-based fibre-optic networks enables PTO's to economically provide traditional transparent network connections as...

...of these services will be justified through the better use of medical personnel and resources.

SYNCHRONOUS DIGITAL HIERARCHY

SDH is the natural choice for PTOs implementing a new digital transmission system due to its...to the higher levels -- a labour and equipment intensive activity.

The key advantage of an **SDH** network is not in its higher capacity or self-healing capabilities, but in its ability...

...to be more responsive to the demands of business users.
The base level of the **SDH** system is the **synchronous transport module**, STM-1, which has a transmission rate of 155.52 Mbps. Four STM-1s are...

...STM-16 (2488.32 Mbps) level.

The STM levels are the speeds at which the **SDH** network operates and include all the multiplexing and network management overheads necessary to set up...

...of information to the same destination. Systems delivering these services must be compatible with the **SDH** backbone and be capable of supporting a wide range of information types, cater for real...

...illustrated below.

The different adaptation layers will allow existing information services such as voice, variable **sized data packets** and **constant** bit rate video to share the same network. However, guaranteed end-to-end circuit performance...

...New multimedia TDMs which are designed for use in metropolitan area environments and compatible with **SDH** networks support the direct connection of video, Ethernet and Token Ring equipment as well as...

9/3,K/2 (Item 1 from file: 16) Links
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02999397 Supplier Number: 44068956 (USE FORMAT 7 FOR FULLTEXT)

... A SPEEDING BULLET

VARbusiness , p 110

Sept , 1993

Language: English Record Type: Fulltext

Document Type: Magazine/Journal ; Trade

Word Count: 1586

...for unswitched or switched, private or public carriers, you might consider E1, Fractional E3, T3, **SDH (Synchronous Digital Hierarchy)**, SONET (Synchronous Optical Network), ISDN (Integrated Services Digital Network, ISDN H0, ISDN H11, Switched DS1... more data and get to its destination with less processing than the equivalent packet-switched **packet**. Next, each **data packet** is the **same length**. This relatively simple change trades one type of efficiency for another, adapting to the resources ...

9/3,K/3 (Item 1 from file: 647) Links

CMP Computer Fulltext

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00542684 CMP Accession Number: VAR19930901S1033

...A SPEEDING BULLET - The Trade-offs and Promises of High- Speed Networking

(TECH INSIDER)

Curtis Franklin Jr.

VARBUSINESS , 1993 , n 912 , 110

Publication Date: 930901

Journal Code: VAR Language: English

Record Type: Fulltext

Section Heading: TECHNOLOGY

Word Count: 1610

...for unswitched or switched, private or public carriers, you might consider E1, Fractional E3, T3, **SDH (Synchronous Digital Hierarchy)**, SONET (Synchronous Optical Network), ISDN (Integrated Services Digital Network), ISDN H0, ISDN H11, Switched DS1...more data and get to its destination with less processing than the equivalent packet-switched **packet**. Next, each **data packet** is the **same length**. This relatively simple change trades one type of efficiency for another, adapting to the resources...

13/3,K/1 (Item 1 from file: 9) Links

Business & Industry(R)

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00571789 Supplier Number: 23075060

NORTHERN TELECOM COMPLETES FIRST PHASE OF CHINESE INVESTMENT

(Northern Telecom completes first phase of multi-year investment program in China; reckons telecoms equipment sales of some \$260m)

Computergram International , n 2541 , p N/A

November 10, 1994

Document Type: Newsletter ISSN: 0268-716X (United Kingdom)

Language: English Record Type: Fulltext

Word Count: 200

TEXT:

...and reckons it has already sold about \$260m of switching equipment and other advanced systems, **packet data** networks and **Synchronous Digital Hierarchy** transmission systems there: the first-phase investment programme will result in the Canadian increasing the...

13/3,K/2 (Item 1 from file: 15) Links

ABI/Inform(R)

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00942714 95-92106

China's carriers warm to U.S. technology

Titch, Steve

Telephony v227n20 pp: 7, 21

Nov 14, 1994

ISSN: 0040-2656 **Journal Code: TPH**

Word Count: 974

Text:

...a lot of action in China, including sales of switching equipment and other advanced systems, **data packet** networks and **SDH** transmission systems.

Telecom growth in China continues at a phenomenal pa